PATCH TEST REPORT

ECS System Integration and Test

Patch ID: PATCH_6A08_DPL_HEG.03D	**Patch Installation Date: 02/06/04** **Location/Mode(s):** EDF DEV04	**Lead Engineer:** John Corbett

NCR Ids/Name (If not shown below):	**Patch Footprint/Affected Subsystems:** HEG/DPL

Test Objectives (Functional/Performance/Regression/Fault Recovery)/New Functionality/Ops Concept(s):
Verify NCRs/install

Test Location/Modes/Tools: EDF – DEV04	**Test Date:** **02/06/04 – 02/09/04**
Test Support Personnel:John Corbett **Development POC:** Cid Pradera, Ray Milburn, Sharon Ni and Abe Taaheri **NCR Submitter(s) POC:**	**Other Test Requirements:**

Required Completion Date 02/09/04
Planned Completion Time/Date: 02/09/04

Test Approach (By NCR, if applicable) NOTE: Detailed NCR verification steps/info should be entered in DDTS.

NCR #	Inputs/Actions:	Outputs/ Expected Results:	Pass/Fai /Not Tested	Comments:
38372	Datapool HEG may be using wrong sphere for MODIS Datasets. Short Name = MOD10A.004 local granule ID = MOD10A1.A2003246.h13v01.004.2003258033003.hdf 1. HDF-Geographic 2. Geotiff Geographic 3. UTM – Geographic	Radius of Sphere = 6371007.181000 meters. Value used listed in resample logs.	P	1. Run #128 2. Run #129 3.Run #138
38637	Need to produce external metadata file for tiff output. 1. Short name = MI1B2E.001 local granule ID = MISR_AM1_GRP_ELLIPSOID_GM_P041_0001040_AF_02.hdf Projection = HDF Geographic 2. Short name = AST_L1B.003 local granule ID = quatar2.hdf. Projection = Geotiff Geographic	The following additional attributes present in all met files. a) Projection = Geographic. b) Projection parameters = all zeros (default) c) Grid resampling method = nearest neighbor resampling d) Data Columns and Data Rows set. e) Upper left and lower right corner values set and units in DMS degrees. f) X and Y pixel size set and units in decimal degrees. a) Pointing angles group extracted from input file. b) Extraction of SolarDirection values from input file and insert the two values into with the attribute names Solar_Azimuth_Angle and Solar_Elevation_Angle respectively. c) Extraction of MapOrientationAngle value from input file. d) Projection = Geographic. e) Projection parameters = all zeros (default) f) Grid resampling method = nearest neighbor	P	Run #86, #90 and #91. See notes #2 and #3 below.

	3. Short name = MOD09GHK.003 local granuleID = MOD09GHK.A2003123.h11v05.003.2002128130140.hdf Projection = GeoTiff-UTM.	resampling. g) Data Columns and Data Rows set. h) Upper left and lower right corner values set and units in DMS degrees. i) X and Y pixel size set and units in decimal degrees. a) Projection = UTM b) Projection parameters = all zeros (default) c) Grid resampling method = nearest neighbor resampling. d) Data Columns and Data Rows set. e) Upper left and lower right corner values set and units in meters. f) X and Y pixel size set and units in meters.		
38650	Remove xml from downloads directory or rename.	*.xml file renamed to *.input.xml	P	Examined ASTER run#126 and MODIS run #127
38651	Change formats from HDF to GeoTiff w/o a projection conversion. - Short name = AST_L1B.003 local granule ID = quatar2.hdf. Projection = Geotiff Geographic	Output examined in ENVI.	P	See comment #1 below. Run #139
38771	GCTP library needs to include MODIS sphere/datum - MOD10A1.004 .A2003246.h13v01.2003258033003.hdf used with several projections.	Radius of sphere used for converting MODIS data sets uses value 6371007.181 meters. (refer to ncr 38372) Spheriod.txt includes correct value fore MODIS Spheriod.	P	Refer to ncr 38372
39004	6A08+ TS1 can't populate DataPool with version 196 data.		N/A	Verified at DAAC by Sfrank. Refer TE_6A.08_DPL.04
39027	Apply GCTP library change to every platform.		P	Verified by inspection by Sharon Ni.
39183	Web Access: 'Geo Tiff No Reprojection' option for HEG conversion. ASTER swath. - AST_L1B.3 data	For choices made available for ASTER swath data. 1. No Change (HDF-EOS No Reprojection) 2. HDF-EOS, Geographic 3. GeoTiff, No Reprojection 4. GeoTiff, Geographic	P	
39381	AST_L1B 3B band fails to convert for GeoTiff no reprojection - Short name = AST_L1B.003 local granule ID = quatar2.hdf. Projection = Geotiff Geographic	Successful completion of conversion without coring.	P	Run #123
39385	Difference in meter location same for pixel for ASTER TIF no reprojection	Comparison of pixels in original hdf file to tif file should show minimal shifting.	P	Run #139 examined in ENVI.
39386	Converter cores for ASTER swath HDF-EOS no reprojection with subsetting. Short name = AST_L1B.003 local granule ID = quatar2.hdf. Projection = Geotiff, No reprojection. UL = (25.5,50.7) LR = (25.1,51.4)	Successful run without coring.	P	Run #119

Comments: 1. **NCR 39242 generated during testing of 38651** 2. **NCR 39280 generated during testing of 38637** 3. **MI1B2E.001 unable to be run on f3ins01. (Memory limitations) Verification of this product done on command line run in PVC. Please see p2dps01:/usr/ecs/OPS/CUSTOM/HEG_patch3D_test in PVC. Reference NCR 39451.** 4. **NCR 39466 generated during regression testing.**
List of Artifacts/Attachments **(Procedures/data/etc.):**

Signature of Lead Engineer: _____	**Completion Date:**